

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P10792WO			FOR FURTHER A	CTION		n of Transmittal of International amination Report (Form PCT/IPEA/416)
International application No. PCT/GB 03/02963			International filing date 09.07.2003	(day/mont	th/year)	Priority date (day/month/year) 15.08.2002
Interna	ational Pat	ent Classification (IPC) or b	oth national classification	and IPC		
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Applica	ant					
		R RESEARCH LIMIT	ED et al.			
L	<u>:</u>					
1.	This inter	national preliminary examend is transmitted to the	mination report has bee applicant according to	en prepar Article 3	ed by this Inte 6.	rnational Preliminary Examining
, : •	٠.	•				
2.	This REF	ORT consists of a total of	of 7 sheets, including t	his cover	sheet.	
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	∐ ∛This	s report is also accompai	nied by ANNEXES, i.e. hasis for this report and	sheets o	of the description	on, claims and/or drawings which have ectifications made before this Authority
	(se	e Rule 70.16 and Section	607 of the Administra	tive Instru	actions under t	he PCT).
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3.	This repo	rt contains indications re	lating to the following if	tems:		
	ı 🛛	Basis of the opinion				
		Priority				
-	<u>□</u> III ⊠	=	oninion with regard to r	novelty in	ventive sten a	nd industrial applicability
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•		Lack of unity of inventi		: Ale a a	d ka manadha im	unativo atau ar industrial applicability.
'	v 🛛	citations and explanati	inger Hule 66.2(a)(ll) w ons supporting such st	nın regard atement	i to noveity, in	ventive step or industrial applicability;
,	VI 🗆	Certain documents cite				
	VII 🗆	Certain defects in the i		า		
		Certain observations o			•	
`	VIII 🗆	Certain observations o	in the international app	lication		
Date of	Date of submission of the demand			Date of	completion of th	is report
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23.12	23.12.2003			25.11.	2004	
Name a	Name and mailing address of the international				ed Officer	_as Para
prelimir	preliminary examining authority:					de price de la companya de la compan
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	Fax: +49 89 2399 - 4465			Leiebno	ne No. +49 89 2	(333-130)

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I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	scription, Pages						
	1-1	6	as originally filed					
	Cla	aims, Numbers						
	1-1	7	as originally filed					
	Dra	awings, Sheets						
	1/1		as originally filed					
2.	Wit lan	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	The	ese élements were av	vailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Ruie 23.1(b)).					
		the language of pub	lication of the international application (under Rule 48.3(b)).					
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3.	Wit inte	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the international application in written form.						
		illed together with the international application in computer readable form.						
		☐ furnished subsequently to this Authority in written form.						
		☐ furnished subsequently to this Authority in computer readable form.						
		☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
[The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.	The	amendments have r	resulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sheet conta report.)	aining .	such amendi	ments must be referred to under item 1 and annexed to thi				
6.	Add	dditional observations, if necessary:							
Ш.	. Noi	n-establishment of opinion w	ith re	gard to nove	elty, inventive step and industrial applicability				
1.	The obv	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:							
		the entire international application,							
	\boxtimes	claims Nos. 16,17							
		because:							
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):							
	\boxtimes	the description, claims or drawings (indicate particular elements below) or said claims Nos. 16,17 are so unclear that no meaningful opinion could be formed (specify):							
		see separate sheet							
		the claims, or said claims Nos could be formed.	. are s	o inadequate	ely supported by the description that no meaningful opinion				
		no international search report	has be	een establish	ned for the said claims Nos.				
2.	or a	neaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and Imino acid sequence listing to comply with the standard provided for in Annex C of the Administrative ructions:							
		the written form has not been furnished or does not comply with the Standard.							
☐ the computer readable form has not been furnished or does not comply with the Standard.				ned or does not comply with the Standard.					
V.	Rea cita	soned statement under Artic tions and explanations supp	ele 35(orting	2) with rega such stater	ard to novelty, inventive step or industrial applicability; ment				
1.	Stat	ement							
	Nov	elty (N)	Yes: No:	Claims Claims	1-15				
I	Inve	Inventive step (IS)		Claims Claims	5-8,13,14 1-4,9-12,15				
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-15				

2. Citations and explanations

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see separate sheet

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EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: EP-A-0 933 726 (MITSUBISHI ELECTRIC CORP) 4 August 1999

Novelty and inventive step of claim 1 1.

> The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve an inventive step in the sense ofArticle 33(3) PCT.

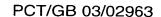
> The document D1 is regarded as being the closest prior art to the subject-matter. of claim 1, and discloses (the references in parentheses applying to this document):

- a method for processing video images to detect an event of interest . (paragraph 0001), comprising the steps of:
- receiving a video signal representing the video images to be processed (page. 4, lin. 39-40);
- using an iterative learning process to drive a normal pattern of behaviour for each track (p. 5, lin. 2-8);
- comparing present behaviour of the at least one track to the respective normal pattern of behaviour (p. 4, lin. 39-47), and
- in response to the present behaviour falling outside the normal pattern of behaviour, generating an alarm signal (par 0021).

The subject-matter of claim 1 therefore differs from the method in D1 in that two steps of the method contain a "point" instead of "object":

- extracting at least one point feature from the video signal;
- tracking the position and movement of the at least one point feature within the video images to generate a corresponding at lest one track, each representing a corresponding point feature.

Thus, claim 1 seems to be new (Article 33(2) PCT.



EXAMINATION REPORT - SEPARATE SHEET

The problem to be solved by the present invention may therefore be regarded as to provide a more accurate surveillance of the monitoring zone.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step because the extracting and tracking of point features is an obvious step for a skilled person in the field of video surveillance. A point feature is implicitly included in an object feature. An object in a frame image is composed from one or a plurality (a matrix) of points, there is only a different scale.

Moreover, the applicant itself discloses in the description of the application (page 9, lines 5 to 10) that "any algorithm that can be used to extract image features that can be associated with a locality can be used as a point-like feature extractor in the present invention". Furthermore, at page 9, line 26, the applicant discloses that "tracking algorithms are themselves relatively well known and understood".

Thus, claim 1 does not involve an inventive step (Article 33(3) PCT).

Inventive step of claims 2 to 4 and 9 to 12 2.

The above mentioned dependent claims do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, Article 33(3) PCT, for the following reasons:

claim 2: see D1, par 0021;

claim 3 and 4: D1, par. 0017, an added velocity parameter cannot be considered as involving an inventive step, see the wording "alternative motion features" in the same paragraph suggesting the accumulation of velocity parameter; claim 9-12: D1, par 0021, 0022, and 0024. Fixing various threshold parameter for video images is however generally known to the person skilled in the art.

Inventive step of claims 5 to 8, 13 and 14 3.

The combination of the features of dependent claims 5, 6, 7, 8, 13 and 14 is neither known from, nor rendered obvious by, the available prior art and seems to involve an inventive step, Article 33(3) PCT.

INTERNATIONAL PRELIMINARY

International application No. PCT/GB 03/02963

EXAMINATION REPORT - SEPARATE SHEET

Novelty and inventive step of claim 15 4.

> The same reasoning from section 1 applies, mutatis mutandis, to the subject-matter of the corresponding apparatus claim 15, which therefore seems to be new but not inventive.

The industrial application of claims 1 to 15 is obviously not in doubt, Art. 33(4) 5.